To: ALL BRIDGE DESIGNERS 99.2

From: Ralph E. Anderson Ralph E. Anderson

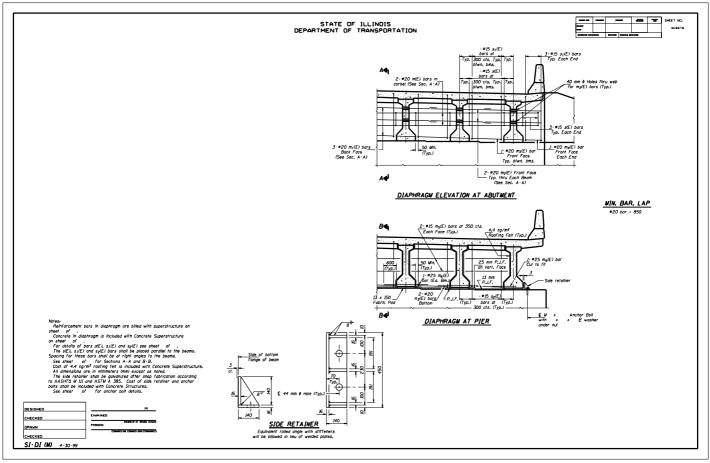
Subject: Integral Abutment Base Sheets; Future Wearing Surface

Date: April 30, 1999

This bridge memorandum supersedes previously issued Bridge Memoranda 97.10 and 98.2. Bridge Memorandum 97.10 contained integral abutment base sheets for all structure types. All of these base sheets, with the exception of those pertaining specifically to PPCI-beam and Bulb-T structures, have been incorporated into the Bridge Manual and CADD Manual with the issuance of the Bridge Manual revisions dated April 30, 1999. The integral base sheets for PPCI-beam and Bulb-T structures are included herein. They represent our preferred details which will be available in electronic format with the next revision of the Prestressed Concrete Manual.

Bridge Memorandum 98.2 included a revised concrete slab design chart to account for an increase in future wearing surface to 2.4 kN/m² (50 lbs./sq. ft.). This chart has been incorporated into the Bridge Manual with the revisions dated April 30, 1999. Please note that the Prestressed Concrete I-beam and Bulb-T design charts found in the Prestressed Concrete Manual have not been revised and can be affected by as much as 15%. The Prestressed Concrete Manual will be updated in the future to account for the increase in future wearing surface.

KLR/bb16755



## STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

\*Concrete Nails (Flat Hd. C.S.) 25 mm long at 300 cts, (Typ.)

3 x 300 reinforced elastomeric

neoprene mat sealed with mastic. (Full length

along skew

Beam ends shall be set on an initial 15 mm Min. grout (2:1 sand and

portland cement, very dry mix) to provide full bearing. Any excess

grout squeezed out from under the beam shall be removed. Cost

-Bar Splicer (E) for #15 bar

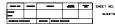
-Bonded Const. Joints

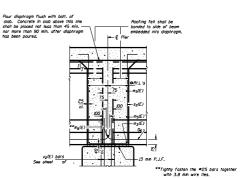
\_Leve/

-Bonded Const. Joint

Included with Concrete Structures.

-Back of Abut.





SECTION B-B

Dimensions along € of beam, except as shown.

See sheet of for location of Sections A-A and B-B. All dimensions are in millimeters (mm) except as shown.

DESIGNED EXAMINED CHECKED PASSED DRAWN CHECKED

- o(E)

m<sub>0</sub>(E) si(E) 50 c/.

m<sub>1</sub>(E) or m<sub>4</sub>(E) v<sub>I</sub>(E) bars

€ Abul. --

SECTION A-A

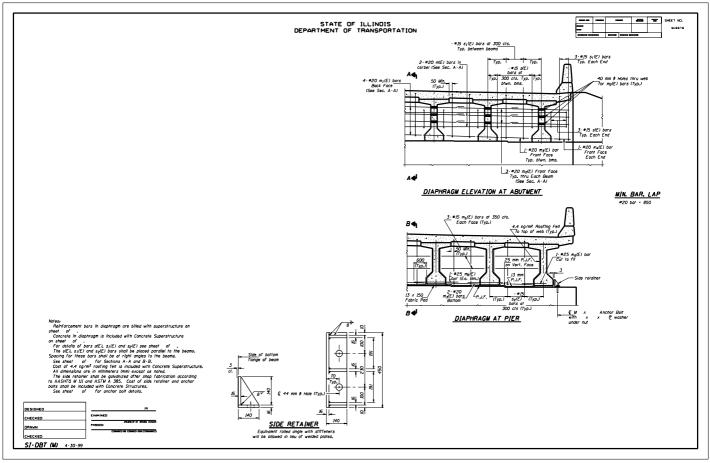
Dimensions at right angles to abutment, except as shown.

"Cost included with Concrete Structures.

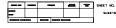
See sheets and of

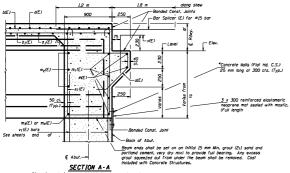
PLAN AT PIER (Showing bearing pad and PJF details)

SI-DDI (M) 4-30-99



## STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION





Dimensions at right angles to abutment, except as shown.

\*Cost included with Concrete Structures.

Paur dispringer flain with both, of side Cheen find flain and side placed not less than 45 min.

And is a placed not less than 45 min.

Paur dispring fest shall be sold beam sould to side of beam sould not a side of beam poured.

And the place of the side of beam sould not beam sould not beam sould not beam poured.

And the place of the plac

Notes:

See sheet of for location of Sections A-A and B-B.

All dimensions are in millimeters (mm) except as shown.



PLAN AT PIER
(Showing bearing pad and PJF details)

